# Anbotek Product Safety

## **RF EXPOSURE EVALUATION**

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

### FCC ID: 2AOKB-A1761

## **EUT Specification**

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EUT otek Anbotek	Anker SOLIX C1000 Portable Power Station/
ofer Anbo ok botek	Anker SOLIX C1000X Portable Power Station
Frequency band	WLAN: 2.412GHz ~ 2.462GHz
(Operating)	WLAN: 5.18GHz ~ 5.24GHz / 5.50GHz ~ 5.70GHz
Anbo ok botek Anbore	WLAN: 5.745GHz ~ 5.825GHz
Anborte Ant sotek Ant	Others: 2.402GHz~2.480GHz
Device category	Portable (<20cm separation)
tek spotek Anboi k	⊠ Mobile (>20cm separation)
the hotek Anboten	Others
Exposure classification	Occupational/Controlled exposure
nbotek Anbo Ak hotel	General Population/Uncontrolled exposure
Antenna diversity	⊠ Single antenna
Ann otek unbotek Anb	Multiple antennas
Ander sek storek A	Tx diversity
tek Anboit Anti-	Rx diversity
otek Anboten Anbo	□ Tx/Rx diversity
Max. output power	WIFI 2.4G: 21.15dBm (0.1303W);
Anboit Ain Lotek Anboten	BLE: 3.89dBm (0.0024W)
Antenna gain (Max)	BLE: 3.65dBi
Anbotek Anbo, Air	WiFi 2.4G: 3.65dBi
Evaluation applied	MPE Evaluation
Anv stek Anbotek	□ SAR Evaluation
100	

Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field	Magnetic Field	Power Density	Average Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm <sup>2</sup> )	nu otek Anborek
Anbore An	(A) Limits for (	Occupational/Con	trol Exposures	And stek anbr
300-1500	Anbo ok - botel	Anbore An	F/300	And 6K
1500-100000	Anbor - Am	ek anteoten	ind lak 5 abotek	Anto 6
Att hotel(E	B) Limits for Gene	ral Population/Ur	ncontrol Exposur	es Anboter
300-1500	K abotek A	por An hotek	F/1500	30 poten
1500-100000	- notek	Anbote Ano	k optek A	30

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## Friis transmission formula: Pd=(Pout\*G)\(4\*pi\*R2)

### Where

Pd= Power density in mW/cm<sup>2</sup> Pout=output power to antenna in Mw G= gain of antenna in linear scale Pi=3.1416

R= distance between observation point and center of the radiator in cm Pd the limit of MPE. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Operating	Measured Power	Tune up tolerance	Max. Tune up Power	Antenna Gain	Power density at 20cm	Power density Limits
Mode (dBm)	(dBm)	(dBm)	(dBi)	(mW/cm² )	(mW/cm² )	
WiFi 2.4G	21.15	21.15 ±1	22.15	3.65	0.0756	Ant hotely Ant
BLE	3.89	3.89 ±1	4.89	3.65	0.0014	Annolek

## **Max Measurement Result**

## The WLAN 2.4G and BLE can transmit simultaneously:

S; Limit.i

=SWIFI2.4/Slimit-2.4+ SBLE/Slimit-BLE

=0.0756/1+0.0014/1

=0.077

< 1.0

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